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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,608	10/29/2003	James E. Chomas	2003P12084US	6862
Siemens Corpor	7590 06/27/200 ration	EXAMINER		
Intellectual Property Department			CATTUNGAL, SANJAY	
	170 Wood Avenue South Iselin, NJ 08830			PAPER NUMBER
			MAIL DATE	DELIVERY MODE
			06/27/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/696,608	CHOMAS ET AL.				
Office Action Summary	Examiner	Art Unit				
	SANJAY CATTUNGAL	3768				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 20 Se	eptember 2007					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-15 and 23-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
/ <u> </u>						
6) Claim(s) 1-15 AND 23-25 is/are rejected.						
· · · · ·	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-16 and 23-25 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Patent No. 5,873,830 to Hossack et al.

Regarding Claim 1, 3-6, Hossack teaches a method for stabilizing an image plane in medical imaging, the method comprising: tracking motion within a region; and automatically altering an acquisition scan plane position relative to a transducer as a function of the motion. (Abstract and Claims 1 and 2)

Regarding Claim 2 Hossack teaches a method that comprises performing one of a cross-correlation and a sum of absolute differences. (Col. 10 lines 59-65)

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hossack in view of Melton (US 5,373,848).

Regarding claim 14 and 15: Although Hossack does not teach the tracking of the motion comprises tracking one of speckle and spatial gradient, Melton teaches according to the invention, in order to determine blood flow independent of direction, the

interrogation volume is made substantially spherical. For this case, this means that the volume is symmetric with respect to the spatial gradient along any axis that I~asses through its center (not just the x-y-z system shown in the figures), (See Col. 5, line 50-55).

Therefore it would have been obvious for one ordinary skill in the art at the time of the invention was made to apply spatial gradient thought by Melton for a symmetric fluid like blood in vessel in order to find the blood flow independent of direction.

Claims 23 and 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hossack in view of Hossack (US 6,083,168) (Hossack2).

Regarding Claim 23 and 24: Although Hossack does not teach the automatically altering an acquisition volume position to be relative to a transducer.

Hossack2 teaches the method of an ultrasound imaging comprises the steps of measuring motion of a transducer array by measuring motion of a sub-block of pixels between at least two ultrasound-image frames and automatically altering an operating mode of a transducer array in response to an absence of measured motion.

Hossack2 also teaches the system applies different imaging parameters within and outside a region of interest in an ultrasound image to improve spatial and/or temporal resolution inside a region of interest and motion estimation logic 190 performing an image motion tracking technique can determine frame-to-frame motion of a sub-block of pixels. Therefore it would have been obvious to one ordinary skill in the art at the time of the invention was made to automatically alter an acquisition volume position as a function of motion to improve the resolution and operation.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANJAY CATTUNGAL whose telephone number is (571)272-1306. The examiner can normally be reached on 9:30 - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (571)272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian L Casler/ Supervisory Patent Examiner, Art Unit 3737

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